

**COMBINED DECLARATION AND POWER OF ATTORNEY  
FOR UTILITY OR DESIGN PATENT APPLICATION**

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if more than one name is listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**PROJECTION-TYPE ROTARY ENCODER**

the specification of which (check only one item below):

- ☐ is attached hereto, and was amended on (if applicable).
- ☒ was filed as United States Application Number \_\_\_\_\_  
on March 3, 2004  
and was amended on \_\_\_\_\_ (if applicable).
- ☐ was filed as PCT International Application Number \_\_\_\_\_  
on \_\_\_\_\_  
and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above;

I acknowledge the duty to disclose to the office all information known to me to be material to patentability as defined in title 37, Code of Federal Regulations, Sec. 1.56 (as amended effective March 16, 1992);

I hereby claim foreign priority benefits under Title 35, United States Code, §§119 (a)-(d), 172 or 365 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. §§119(a)-(d), 172 or 365:			
COUNTRY (if PCT, Indicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. §§119, 172 OR 365
Japan	JP2003-059983	6 March 2003	YES_ <u>X</u> _ NO_
			YES_ NO_
			YES_ NO_
			YES_ NO_
			YES_ NO_
			YES_ NO_
			YES_ NO_
			YES_ NO_

I hereby appoint the attorneys and agents associated with the following PTO Customer Number of Burns, Doane, Swecker & Mathis, L.L.P. to prosecute said application and to transact all business in the Patent and Trademark Office connected therewith and to file, prosecute and transact all business in connection with international applications directed to said invention:

Customer Number **2 1 8 3 9**

Address all correspondence to:

BURNS, DOANE, SWECKER & MATHIS, L.L.P.  
Customer Number **2 1 8 3 9**  
P.O. Box 1404  
Alexandria, Virginia 22313-1404

Address all telephone calls to: William C. Rowland at (703) 836-6620.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

<b>Full Name of Sole or First Inventor</b>	Muneo Mitamura
Signature	<i>Muneo Mitamura</i>
Date	<i>March 19, 2004</i>
Residence (City, State, Country)	Nagano-ken, Japan
Citizenship	Japanese
Post Office Address	c/o Harmonic Drive Systems Inc., Hotaka-kojo, 1856-1, Oaza Maki, Hotaka-machi, Minamiazumi-gun, Nagano-ken 399-8305, JAPAN
<b>Full Name of Second Joint Inventor, If Any</b>	Yoshinori Ito
Signature	<i>Yoshinori Ito</i>
Date	<i>March 19, 2004</i>
Residence (City, State, Country)	Nagano-ken, Japan
Citizenship	Japanese
Post Office Address	c/o Harmonic Drive Systems Inc., Hotaka-kojo, 1856-1, Oaza Maki, Hotaka-machi, Minamiazumi-gun, Nagano-ken 399-8305, JAPAN

Full Name of Third Joint Inventor, If Any	Sadaharu Kanamori
Signature	<i>Sadaharu Kanamori</i>
Date	<i>March 19, 2004</i>
Residence (City, State, Country)	Nagano-ken, Japan
Citizenship	Japanese
Post Office Address	c/o Harmonic Drive Systems Inc., Hotaka-kojo, 1856-1, Oaza Maki, Hotaka-machi, Minamiazumi-gun, Nagano-ken 399-8305, JAPAN